



#6

TEX871-4-006US.ST25.txt
SEQUENCE LISTING

<110> Wise, Carol A.
<120> Genetic Markers for Autoimmune Disorder
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<141> 2002-02-04
<150> 60/287,893
<151> 2001-05-01
<150> 09/710,693
<151> 2000-11-08
<160> 28
<170> PatentIn version 3.2
<210> 1
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<400> 1

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Thr Ala His Thr Gly Tyr Glu Val Leu Leu Gln Arg Leu Leu Asp Gly
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Arg Lys Met Cys Lys Asp Met Glu Glu Leu Leu Arg Gln Arg Ala Gln
35 40 45

Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile Ala Arg Lys Ala
50 55 60

Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala Ser Phe Asp Ser Leu
65 70 75 80

Lys Gln Gln Met Glu Asn Val Gly Ser Ser His Ile Gln Leu Ala Leu
85 90 95

Thr Leu Arg Glu Glu Leu Arg Ser Leu Glu Glu Phe Arg Glu Arg Gln
100 105 110

Lys Glu Gln Arg Lys Lys Tyr Glu Ala Val Met Asp Arg Val Gln Lys
115 120 125

Ser Lys Leu Ser Leu Tyr Lys Lys Ala Met Glu Ser Lys Lys Thr Tyr
130 135 140

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Glu Gln Lys Cys Arg Asp Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg
145 150 155 160

Ile Ser Ala Asn Gly His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys
165 170 175

Ala Arg Gln Cys Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg
180 185 190

Gln Ser Ile Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu
195 200 205

His Arg Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu
210 215 220

Thr Ile Leu Arg Asn Ala Leu Trp Val His Ser Asn Gln Leu Ser Met
225 230 235 240

Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr Leu
245 250 255

Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln Ala Lys
260 265 270

Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln Asn Tyr Tyr
275 280 285

Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly Ile Gln Pro Ser
290 295 300

Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu His Gly Ser Pro Lys
305 310 315 320

Thr Thr Ser Leu Ala Ala Ser Ala Ala Ser Thr Glu Thr Leu Thr Pro
325 330 335

Thr Pro Glu Arg Asn Glu Gly Val Tyr Thr Ala Ile Ala Val Gln Glu
340 345 350

Ile Gln Gly Asn Pro Ala Ser Pro Ala Gln Glu Tyr Arg Ala Leu Tyr
355 360 365

Asp Tyr Thr Ala Gln Asn Pro Asp Glu Leu Asp Leu Ser Ala Gly Asp
370 375 380

Ile Leu Glu Val Ile Leu Glu Gly Glu Asp Gly Trp Trp Thr Val Glu
385 390 395 400

Arg Asn Gly Gln Arg Gly Phe Val Pro Gly Ser Tyr Leu Glu Lys Leu
405 410 415

<210> 2
<211> 323
<212> PRT
<213> Murine Amino Acid

<400> 2

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20 25 30

Arg Lys Met Cys Lys Asp Val Glu Glu Leu Leu Arg Gln Arg Ala Gln
35 40 45

Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile Ala Arg Lys Ala
50 55 60

Gly Gly Gln Thr Glu Met Asn Ser Leu Arg Thr Ser Phe Asp Ser Leu
65 70 75 80

Lys Gln Gln Thr Glu Asn Val Gly Ser Ala His Ile Gln Leu Ala Leu
85 90 95

Ala Leu Arg Glu Glu Leu Arg Ser Leu Glu Glu Phe Arg Glu Arg Gln
100 105 110

Lys Glu Gln Arg Lys Lys Tyr Glu Ala Ile Met Asp Arg Val Gln Lys
115 120 125

Ser Lys Leu Ser Leu Tyr Lys Lys Thr Met Glu Ser Lys Lys Ala Tyr
130 135 140

Asp Gln Lys Cys Arg Asp Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg
145 150 155 160

Val Ser Ala Asn Gly His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys
165 170 175

Ala Lys Gln Cys Lys Glu Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg
180 185 190

Gly Asn Ile Glu Gln Leu Glu Arg Ala Arg Thr Glu Trp Glu Gln Glu
195 200 205

His Arg Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu
210 215 220

Thr Ile Leu Arg Asn Ala Leu Trp Val His Cys Asn Gln Leu Ser Met
225 230 235 240

Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr Leu
245 250 255

Glu Gly Cys Asp Val Glu Gly Asp Ile Asn Gly Phe Ile Gln Ser Lys
260 265 270

Ser Thr Gly Arg Glu Pro Pro Ala Pro Val Pro Tyr Gln Asn Tyr Tyr
275 280 285

Asp Arg Glu Val Thr Pro Leu Ile Gly Ser Pro Ser Ile Gln Pro Ser
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305 310 315 320

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35 40 45

Gln Asn Ser Asp Glu Leu Asp Ile Ser Ala Gly Asp Ile Leu Ala Val
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<210> 16
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<210> 17
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<400> 17 18
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<210> 18
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 <212> DNA
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TEX871-4-006US.ST25.txt

Arg Lys Met Cys Lys Asp Met Glu Glu Leu Leu Arg Gln Arg Ala Gln
35 40 45

Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile Ala Arg Lys Ala
50 55 60

Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala Ser Phe Asp Ser Leu
65 70 75 80

Lys Gln Gln Met Glu Asn Val Gly Ser Ser His Ile Gln Leu Ala Leu
85 90 95

Thr Leu Arg Glu Glu Leu Arg Ser Leu Glu Glu Phe Arg Glu Arg Gln
100 105 110

Lys Glu Gln Arg Lys Lys Tyr Glu Ala Val Met Asp Arg Val Gln Lys
115 120 125

Ser Lys Leu Ser Leu Tyr Lys Lys Ala Met Glu Ser Lys Lys Thr Tyr
130 135 140

Glu Gln Lys Cys Arg Asp Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg
145 150 155 160

Ile Ser Ala Asn Gly His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys
165 170 175

Ala Arg Gln Cys Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg
180 185 190

Gln ser Ile Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu
195 200 205

His Arg Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu
210 215 220

Thr Ile Leu Arg Asn Ala Leu Trp Val His Ser Asn Gln Leu Ser Met
225 230 235 240

Gln Cys Val Lys Asp Asp Glu Leu Tyr Gln Glu Val Arg Leu Thr Leu
245 250 255

Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln Ala Lys
260 265 270

Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln Asn Tyr Tyr
275 280 285

Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly Ile Gln Pro Ser
290 295 300

Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu His Gly Ser Pro Lys
305 310 315 320

Thr Thr Ser Leu Ala Ala Ser Ala Ala Ser Thr Glu Thr Leu Thr Pro
325 330 335

Thr Pro Glu Arg Asn Glu Gly Val Tyr Thr Ala Ile Ala Val Gln Glu
340 345 350

Ile Gln Gly Asn Pro Ala Ser Pro Ala Gln Glu Tyr Arg Ala Leu Tyr
355 360 365

Asp Tyr Thr Ala Gln Asn Pro Asp Glu Leu Asp Leu Ser Ala Gly Asp
370 375 380

Ile Leu Glu Val Ile Leu Glu Gly Glu Asp Gly Trp Trp Thr Val Glu
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<400> 22

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Arg Lys Met Cys Lys Asp Met Glu Glu Leu Leu Arg Gln Arg Ala Gln
 35 40 45

Ala Glu Glu Arg Tyr Gly Lys Glu Leu Val Gln Ile Ala Arg Lys Ala
 50 55 60

Gly Gly Gln Thr Glu Ile Asn Ser Leu Arg Ala Ser Phe Asp Ser Leu
 65 70 75 80

Lys Gln Gln Met Glu Asn Val Gly Ser Ser His Ile Gln Leu Ala Leu
 85 90 95

Thr Leu Arg Glu Glu Leu Arg Ser Leu Glu Glu Phe Arg Glu Arg Gln
 100 105 110

Lys Glu Gln Arg Lys Lys Tyr Glu Ala Val Met Asp Arg Val Gln Lys
 115 120 125

Ser Lys Leu Ser Leu Tyr Lys Lys Ala Met Glu Ser Lys Lys Thr Tyr
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 Glu Gln Lys Cys Arg Asp Ala Asp Asp Ala Glu Gln Ala Phe Glu Arg
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 Ile Ser Ala Asn Gly His Gln Lys Gln Val Glu Lys Ser Gln Asn Lys
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 Ala Arg Gln Cys Lys Asp Ser Ala Thr Glu Ala Glu Arg Val Tyr Arg
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 Gln Ser Ile Ala Gln Leu Glu Lys Val Arg Ala Glu Trp Glu Gln Glu
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 His Arg Thr Thr Cys Glu Ala Phe Gln Leu Gln Glu Phe Asp Arg Leu
 210 215 220
 Thr Ile Leu Arg Asn Thr Leu Trp Val His Ser Asn Gln Leu Ser Met
 225 230 235 240
 Gln Cys Val Lys Asp Asp Glu Leu Tyr Glu Glu Val Arg Leu Thr Leu
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 Glu Gly Cys Ser Ile Asp Ala Asp Ile Asp Ser Phe Ile Gln Ala Lys
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 Ser Thr Gly Thr Glu Pro Pro Ala Pro Val Pro Tyr Gln Asn Tyr Tyr
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 Asp Arg Glu Val Thr Pro Leu Thr Ser Ser Pro Gly Ile Gln Pro Ser
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 Cys Gly Met Ile Lys Arg Phe Ser Gly Leu Leu His Gly Ser Pro Lys
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 Thr Pro Glu Arg Asn Glu Gly Val Tyr Thr Ala Ile Ala Val Gln Glu
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 Ile Gln Gly Asn Pro Ala Ser Pro Ala Gln Glu Tyr Arg Ala Leu Tyr
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 Asp Tyr Thr Ala Gln Asn Pro Asp Glu Leu Asp Leu Ser Ala Gly Asp

370

375

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<210> 26
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<400> 27
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<210> 28
<211> 1658
<212> DNA
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